

Night Flight

by Arya Akhavan (August 2013)

Angles for R.I. = 1.540

49 + 15 girdles = 64 facets

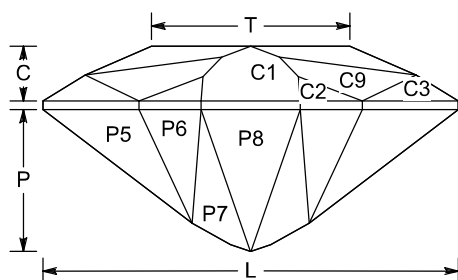
1-fold, mirror-image symmetry

96 index

L/W = 1.364 T/W = 0.651 U/W = 0.470

P/W = 0.465 C/W = 0.179

Vol./W³ = 0.269



PAVILION

P1	46.13°	32-40-56-64	Cut to centerpoint.
P2	46.87°	34-38-58-62	Meet at culet.
P3	43.00°	28-68	Meet at culet.
G1	90.00°	32-40-56-64	Set stone size.
G2	90.00°	34-38-58-62	Level girdle.
G3	90.00°	28-68	Level girdle.
P4	46.04°	33-39-57-63	Meet P1, P2, G1, G2
P5	43.95°	02-94	Meet P1, P3, P4, P5
P7	43.62°	01-95	Meet P1, P3, P4, P5, P6
G4	90.00°	04-92	Level girdle.
G5	90.00°	02-94	Level girdle.
G6	90.00°	96	Meet P6, P7, G5
P8	44.19°	96	Meet P4, P7 (level girdle)

CROWN

C1	37.00°	96	Set girdle width.
C2	37.00°	02-94	Level girdle.
C3	37.00°	04-92	Level girdle.
C4	37.00°	28-68	Level girdle.
C5	37.00°	32-40-56-64	Level girdle.
C6	37.00°	34-38-58-62	Level girdle.
C7	32.76°	36-60	Meet G2, C6
C8	32.16°	30-66	Meet G1, G3, C4, C5; C5, C6, C7
C9	33.91°	03-93	Meet G4, G5, C2, C3; C3, C4, C8
C10	30.32°	37-59	Meet C5, C6, C7
C11	26.69°	33-63	Meet C5, C6, C7, C8
C12	26.87°	04-92	Meet C3, C4, C8, C9
T	0.00°	Table	Meet C1, C12; C7, C10, C11; C8, C11, C12

I recently got an amazing, high-yield piece of iolite from Lisa Elser, and for some reason it reminds me exactly of looking out the window while flying at dusk. I wrote this design specifically for that piece of iolite, and I love it. Works in materials from quartz to GGG (RI = 1.54 - 2.03) with no changes, but it's designed for dark iolite. Suggested length = 8-15 mm

C:\Users\ARYADE~1\Pictures\DESIGN~1\WORKSI~1\41NIGH~1.GEM